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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/833,670	04/13/2001	Xi Chen	023925-00018	2114
32294 75	90 04/13/2004		EXAMINER	
SQUIRE, SANDERS & DEMPSEY L.L.P.			MYERS, PAUL R	
14TH FLOOR 8000 TOWERS CRESCENT TYSONS CORNER, VA 22182			ART UNIT	PAPER NUMBER
			2112	
			DATE MAILED: 04/13/2004	, 9

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n N	Applicant(s)			
	09/833,670	CHEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Paul R. Myers	2112			
The MAILING DATE of this communication appears on the cover sheet with the corresp ndence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 1) Responsive to communication(s) filed on 13 Ag 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
 4) Claim(s) 1-43 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 12-23 and 31-43 is/are allowed. 6) Claim(s) 1-11, 24-29 is/are rejected. 7) Claim(s) 30 is/are objected to. 8) Claim(s) are subject to restriction and/or 					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of the	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 9 and 27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regards to claim 9: There is insufficient antecedent basis for the limitation "said backplane". The backplane which is a standard term in the art for what the applicants are calling the "stacking bus" will be taken further to be applicants "stacking bus".

In regards to claim 27: the phrase "more than data packet" should be more than one data packet".

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-2, 4-8, 24 and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Melvin PN 6,041,065.

In regards to claims 1 and 24: Melvin teaches a system connecting multiple repeaters (16, 17, 17) into a single collision domain comprising: a first repeater (16) having a plurality of network ports (19, 20, 21, 22) and "stack" connectors (the connections to bus 14 and 15); a second repeater (17) having a plurality of network ports (23, 24, 25, 26) and "stack" connectors (the connections to bus 14 and 15); and a stacking bus (either 14 or 15) connecting said first repeater (16) via said stack connectors of said first repeater (16) to said second repeater (17) via said connectors of said second repeater (17) and configured to relay carrier signals (Column 1 lines 7-38), collision signals (Column 1 lines 7-38) and data between said first (16) and said second repeaters (17). Melvin also teaches collision jam generation Column 1 lines 33-39.

In regards to claim 2: Melvin teaches the repeaters are configured to detect a collision across its plurality of ports and send a collision signal to said second repeater via said stacking bus (Column 2 lines 28-43 signal CD).

In regards to claims 4-5: Melvin teaches the IRB buses being 5 bit data buses in accordance with the 802.3U standard (Column 3 lines 7-15).

In regards to claims 6-8: Melvin teaches 10MB and 100MB Ethernet repeaters including 10/100MB bridges.

In regards to claim 27: Melvin teaches collision detection which would fit the definition of collision detection. Which is detecting signals simultaneously on two or more separate ports.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 3, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Melvin PN 6,041,065 in view of Gerety PN 4,638,311.

In regards to claims 3, 9: Melvin teaches that collision detection is performed in accordance with 802.3 however Melvin is totally silent as to how the collision detection is actually performed. Gerety teaches in accordance with the 802.3 standard handling collision detection in which a collision detection signal is transmitted out on a reference bus to all other devices including itself. It would have been obvious to a person of ordinary skill in the art at the time of the invention to use Gerety's collision detection method because this would have made Melvin's 802.3 compliant repeaters actually be compliant with the 802.3 standard.

7. Claims 10, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Melvin PN 6,041,065 in view of Molle PN 5,978,383.

In regards to claims 10, 28: Melvin teaches detecting a collision Melvin does not teach a carrier signal being what is used to detect the collision. Molle teaches using a carrier signal to detect a collision. It would have been obvious to use a carrier signal to detect a collision because this would have allowed for fast collision detection.

8. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Melvin PN 6,041,065 in view of Molle PN 5,978,383 as applied to claim 10 above, and further in view of Gerety PN 4,638,311.

In regards to claim 11: Melvin in view of Molle teaches collision detection using the carrier signal as described above. Melvin in view of Molle does the collision signal being transmitted to all devices including the repeater itself. Gerety teaches in accordance with the 802.3 standard handling collision detection in which a collision detection signal is transmitted out on a reference bus to all other devices including itself. It would have been obvious to a person of ordinary skill in the art at the time of the invention to use Gerety's collision detection method because this would have made Melvin's 802.3 compliant repeaters actually be compliant with the 802.3 standard.

9. Claims 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Melvin PN 6,041,065 in view of Abraham et al PN 5,301,303.

In regards to claim 25: Melvin teaches the repeaters complying with the IEEE 802.3 standard however, other than the 4 or 5 bit databus and the collision signal, Melvin is silent on what signals are on the backplane. Abraham et al teaches a backplane compliant to the 802.3 standard which includes a clock, databus, data enable, carrier, and collision signals. It would have been obvious to have Melvin's 802.3 compliant backplane include the signals of Abraham et al because this would have made it compliant with IEEE 802.3.

In regards to claim 26: Melvin teaches a 5 bit databus and a 25MHz clock (Column 5 lines 18-34).

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10. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Melvin PN 6,041,065.

In regards to claim 29: Melvin teaches the 10Mbit bus being 4 bits wide at 2.5 MHz.

Official Notice is taken that a 1 bit wide bus at 10MHz is also a 10Mbit bus. It would have been obvious to use a 1 bit 10 MHz bus because this would have reduced the number of required signal lines.

Allowable Subject Matter

- 11. Claims 12-23 and 31-43 allowed.
- 12. Claim 30 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul R. Myers whose telephone number is 703 305 9656. The examiner can normally be reached on Mon-Thur 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703 305 4815. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRM April 12, 2004

PAUL R. MYERS
PRIMARY EXAMINER

Paul R. My